

## **ABSTRACT OF THE INVENTION**

The motor with aerodynamic bearing constitutes so that the detrimental power added to the shaft and sleeve of the bearing does not act from the magnetic circuit generates torque, and the rigidity of the bearing becomes small; vibration resulting from radial anti-rigidity becomes small; 5 the loss in iron hysteresis and over-current are lost; the magnetic vibration and sound are reduced remarkably; bearing loss becomes small; it can be rotated high-speed; and the energy loss is small.